Royal Institution of Great Britain,

ALBEMARLE STREET, PICCADILLY, W.

March 1883.

TO ILLUSTRATE

DR. McKENDRICK'S LECTURES

ON

PHYSIOLOGICAL DISCOVERY.

TABLE showing: (1) the names of remarkable anatomists and physiologists; (2) the names of contemporary representatives of other sciences; (3) the names of those distinguished in philosophy, literature, and art; and (4) a note of one or more events or personages indicating the historical position of the period.

The object of the table is to show at a glance the leading contemporaries and more especially the scientific contemporaries, of the anatomists and physiologists, and thus to indicate the intellectual atmosphere in which they lived and worked. The period is from 1500 to 1860.

The facts under the third and fourth heads have been derived chiefly from 'Tables of European Literature and History, A.D. 200–1876,' by Prof. Nichol. The facts under the first and second heads have been collected from many sources. (d = died; b = born.)

COLLATED BY JOHN G. McKENDRICK, M.D.

Period.	Anatomists and Physiologists.	Representatives of Collateral Sciences.	Representatives of Philosophy, Literature, and Art.	Collateral Events.
1500	Achillini, 1461–1512.	Linacre, 1460–1524.	Erasmus, 1467–1536. Ariosto, 1474–1533. Leonardo da Vinci, 1452-1519. Titian, 1477–1576. Albert Durer, 1471–1528.	Julius II., 1503.
1510	——	Paracelsus, 1493–1541.	Sir Thomas More's 'Utopia' (1516), 1480–1535. Luther, 1483–1546. Michael Angelo, 1475–1564. Raphael, 1483–1520. Corregio, 1493–1534.	Charles V. of Spain. Flodden, 1513. Wolsey, 1471–1530.
1520	——	Copernicus, 1473–1543.	Rabelais, 1490–1553. Holbein, 1498–1559. Palissy, 1499–1589.	Reformation in Germany, 1519–1530. James V. of Scotland, 1528–1542.
1530	Vesalius, 1514–1564.	——	Calvin, 1509–1564. Ignatius Loyola, 1491–1556.	Foundation of the Jesuits, 1534. Reformation in England, 1534.
1540	Servetus, 1509–1553. Fallopius, 1523–1562. Columbus, *d.* 1559.	——	Ascham, 1515–1568. Tintoretto, 1512–1594.	Council of Trent, 1545–1563.
1550	Eustachius, *d.* 1574. Dodonée, 1518–1585.	——	John Knox, 1505–1572. Paul Veronese, 1528–1588. Camoens, 1527–1579.	Martyrdom of Servetus, 1553. Elizabeth, 1558–1603.

1560	Fabricius ab Aquapendente, 1537–1619. Aranzi, 1530–1589.	Libavius, *d.* 1618.	George Buchanan, 1506–1582. XXXIX. Articles, 1571.	Reformation in Scotland. Queen Mary Stuart, 1562–1568.
1570	Varolius, *b.* 1543.	Gilbert, 1540–1603. Snellius, 1547–1613.	Isaac Casaubon, 1559–1614. Tasso, 1544–1595.	Peace of Utrecht, 1579. Drake sails round the world, 1577.
1580	Piccolomini, *b.* 1556. Bauhin, 1550–1624. Alberti, about 1581. Donatus, about 1588.	Tycho Brahé, 1546–1601. Giordano Bruno, *d.* 1600. Baptista Porta, 1550–1615.	Hooker, 1553–1600. Raleigh, 1552–1618. Spenser, 1553–1599.	The Armada, 1588.
1590	Sanctorius, 1561–1636.	Kepler, 1571–1630. Bacon, 1561–1626.	Coke, 1550–1634. Cervantes, 1547–1616.	Edict of Nantes, 1598.
1600	Van den Spiegel, 1578–1625.	Drebbel, 1572–1634. Galileo, 1564–1642.	Shakespeare, 1564–1616. Rubens, 1577–1640.	James I., 1603–1625. Gunpowder Plot, 1605.
1610	William Harvey, 1578–1657 (*Circulation*). Van Helmont, 1577–1644. G. Hoffmann, 1572–1648.	Napier, 1550–1617.	English Bible. Ben Jonson, 1574–1637.	The Pilgrim Fathers, 1620. Thirty Years' War, 1618–1648.
1620	Riolan, about 1626. Aselli, about 1622 (*Lacteals*).	Gassendi, 1592–1655. Riccioli, 1598–1671.	First Edition of Shakespeare, 1623. George Herbert, 1593–1633. Vandyck, 1599–1641. Grotius, 1583–1645.	Foundation of New York, 1624. Richelieu, 1585–1642.

Period.	Anatomists and Physiologists.	Representatives of Collateral Sciences.	Representatives of Philosophy, Literature, and Art.	Collateral Events.
1630	Deleboe, *b.* 1614 (*Sylvius*).	Descartes, 1596–1650. Otto Guericke, 1602–1686. Stevinus, 1633. Horrocks, 1619–1640. Wallis, 1616–1703. Ashmole, 1617–1692. Kenelm Digby, 1603–1665. Glauber, 1603–1668.	Herrick, 1591–1674. Velasquez, 1599–1660. Corneille's 'Cid,' 1636.	Covenant in Scotland, 1638. Trial of Hampden, 1637–8. Long Parliament, 1640–1653.
1640	Borelli, 1608–1679. T. Bartholin, 1616–1680. Wirsung, about 1642. Schneider, about 1641.	Torricelli, 1608–1647. Foundation of Royal Society, 1645.	Milton, 1608–1674. Claude Lorraine, 1600–1682. Rembrandt, 1608–1669. Salvator Rosa, 1605–1673. Murillo, 1618–1682.	Civil War, 1642–1651. Marston Moor, 1644. Execution of the King, 1649.
1650	Van Horn, 1621–1670. Rudbeck, about 1650. PECQUET, about 1651 (*Thoracic duct*). Highmore, about 1651. Willis, 1622–1675. Swammerdam, 1637–1680. BOYLE, 1626–1691.	Pascal, 1623–1662. Huyghens, 1629–1695. Sydenham, 1624–1689. Mercator, *d.* 1687.	Hobbes, 1588–1679. Molière, 1622–1673. Jeremy Taylor, 1613–1667. Jan Steen, 1626–1679.	Cromwell Protectorate, 1653–1658. Louis XIV.
1660	JOLLYFE, *b.* about 1622 (*Lymphatics*). MALPIGHI, 1628–1694 (*Circulation under the Microscope*).	Spinoza, 1632–1677. James Gregory, 1638–1675. Isaac Barrow, 1630–1677.	Bunyan, 1628–1688. Bossuet, 1627–1704.	First Standing Army. Plague of London, 1665. Fire of London, 1666.

	LOWER, 1631–1691 (*Transfusion of Blood*). Ray, 1628–1704. Grew, 1628–1711. M. Hoffmann, 1622–1698. Stenon, 1638–1687.			
1670	Vieussens, 1641–1716. Meibom, *b.* 1638. Leuwenhoek, 1632–1723. HOOKE, 1635–1703 (*Artificial respiration*). MAYOW, 1645–1679 (*Respiration*). Duverney, *b.* 1647. Bellini, *b.* 1643. Glisson, 1596–1677.	Roemer, 1644–1710.	Dryden, 1631–1700. Racine, 1639–1699. Malebranche, 1638–1715.	Habeas Corpus Act, 1679. Origin of Whig and Tory, 1680.
1680	Baglivi, 1669–1707. RUYSCH, 1638–1731 (*Art of injecting*). Peyer, *b.* 1653. Lancisi, 1654–1720. Brunner, *b.* 1653.	Newton, 1642–1727. Leibnitz, 1646–1716. James Bernoulli (I.), 1654–1765. Radcliffe, 1650–1714. Mariotte, *d.* 1684.	Locke, 1632–1704. Massillon, 1663–1742. Purcell, 1658–1695.	Peter the Great, 1689–1725.
1690	Valsalva, 1666–1723. Clopton Havers, about 1691. J. M. Hoffmann, 1653–1727. Verheyen, about 1693. Vallisnieri, 1661–1730. G. Bartholin, 1655–1738. Parfour du Petit, 1664–1741.	Stahl, *b.* 1660. Halley, 1656–1742. De Moivre, 1667–1754. F. Hoffmann, 1660–1742.	Sir C. Wren, 1632–1723.	William III., 1689–1702.

Period.	Anatomists and Physiologists.	Representatives of Collateral Sciences.	Representatives of Philosophy, Literature, and Art.	Collateral Events.
1700	Boerhaave, 1668–1738. Keill, 1673–1719.	d'Ons en Bray, 1678–1753. Stephen Gray, *d.* 1736. Mead, 1673–1754. Manfredi, 1674–1739.	Defoe, 1661–1731. Swift, 1667–1745. Addison, 1672–1719.	Union with Scotland, 1707. Discovery of Herculaneum, 1708.
1710	Stephen Hales, 1677–1761 (*Circulation*). Morgagni, 1682–1771.	Jurin, 1684–1750. Papin, 1647–1710. Cotes, 1682–1716. Nicholas Bernoulli (I.), 1687–1759.	Pope, 1688–1744. 'Gil Blas,' 1715. Watteau, 1684–1721.	George I. Walpole, 1721–1742.
1720	Réaumur, 1683–1757. Pacchioni, *b.* 1695.	Maclaurin, 1698–1746. Bradley, 1692–1762. John Bernoulli (I.), 1667–1748.	Berkeley, 1684–1753. Bach, 1685–1750. Handel, 1685–1759. Peroglesi, 1707–1739. Montesquieu, 1689–1755.	Louis XV. Foundation of Guy's Hospital, 1724.
1730	Albinus, 1697–1770.	Linnæus, 1707–1778. Maskeleyne, about 1732. Hawksbee, about 1731. Dollond, 1706–1761. Euler, 1707–1789. Dan Bernoulli (I.), 1700–1752. Hartley, 1705–1757. Cramer, 1704–1752.	Wesley, 1703–1791. Voltaire, 1694–1778. Metastasio, 1698–1782.	Porteous Mob, 1736.

1740	HALLER, 1708–1777 (*Muscular irritability*). Whytt, 1714–1766. Gaubius, 1705–1780. Needham, 1713–1781. Buffon, 1707–1788. Trembley, 1700–1784. Lieberkühn, 1711–1756. J. F. Meckel, 1713–1781.	D'Alembert, 1717–1783. Clairault, 1713–1765. Simpson, 1710–1761. Boscovitch, 1711–1787. Kästner, 1719–1800. Lacaille, 1713–1762. John Bernoulli (II.), 1740–1790. Fothergill, 1712–1780.	Fielding, 1707–1754. Hogarth, 1697–1764. David Garrick, 1716–1779. Condillac, 1715–1780. Rousseau, 1712–1779. Swedenborg, 1689–1772.	Peace of Aix-la-Chapelle. The "'45" Rebellion in Scotland. Clive in India, 1750–1760.
1750	William Cullen, 1712–1790. Bonnet, 1720–1793. Zinn, 1727–1759. Camper, 1722–1789.	Smeaton, 1714–1792. Baumé, 1728–1804.	Hume, 1711–1776. Johnson, 1709–1784. Diderot, 1712–1784. Smollet, 1721–1771. Lessing, 1729–1781. Gainsborough, 1727–1788. Reynolds, 1723–1792.	Seven Year's War, 1756–1763. Pitt, 1756–1761. Plassey, 1757.
1760	JOHN HUNTER, 1728–1794 (*Blood-vessels*). SPALLANZANI, 1729–1799 (*Digestion, respiration, generation*). GALVANI, 1737–1798 (*Animal electricity*). HEWSON, 1739–1774 (*Blood glands*). Unzer, 1727–1799. Erasmus Darwin, 1731–1802.	Mesmer, 1733–1815. Borda, 1733–1799. Lalande, 1732–1807. James Watt, 1736–1819. Hutton, 1726–1797. Lavoisier, 1743–1794. Joseph Black, 1728–1799. Coulomb, 1736–1806. Lagrange, 1736–1813. Sir W. Herschell, 1738–1822. Bailey, 1736–1793. Franklin, 1706–1790. William Hunter, 1718–1785. Robison, 1739–1805. Biot, about 1774. De Saussure, 1740–1799.	Thomas Reid, 1710–1796. Adam Smith, 1723–1790. Gibbon, 1737–1794. Lavater, 1740–1800.	Birth of Napoleon and Wellington in 1769. George III., 1760–1820. Arkwright's "jenny," 1769. Watt's engine, 1769.

Period.	Anatomists and Physiologists.	Representatives of Collateral Sciences.	Representatives of Philosophy, Literature, and Art.	Collateral Events.
1770	Vic d'Ayzr, 1748–1794. Scarpa, 1747–1832. Volta, 1745–1816. Araldi, 1740–1843. LAMARCK, 1744–1829.	Cavendish, 1731–1810. Sir J. Banks, 1743–1820. Gmelin, 1748–1840. John Bernoulli (III.), 1744–1807. Atwood, 1745–1807. Priestley, 1734–1804. Jacobi, 1743–1819. Playfair, 1748–1819. Venturi, 1746–1822. Berthollet, 1748–1822. Scheele, 1742–1786. Bramah, 1749–1814. Daniel Bernoulli (II.), 1751–1834. Jenner, 1749–1823. Fourcroy, 1755–1809.	Goldsmith, 1728–1774. Cowper, 1731–1800. Burns, 1759–1796. Kant, 1724–1804. Gluck, 1714–1787. Mozart, 1756–1792.	American War, 1775–1783.
1780	Prochaska, 1749–1820. Sömmering, 1755–1830. Masgagni, *b.* about 1752. Blumenbach, 1752–1840. Gall, 1758–1828.	Argand, 1755–1803. Babbington, 1757–1833. Hayley, 1749–1820. Laplace, 1749–1827. Legendre, 1752–1833. Count Rumford, 1753–1814. Pierre Prevost, 1751–1839. J. P. Prevost, 1755–1819. Olbers, 1758–1840. Carnot, 1759–1823. James Bernoulli (II.), 1759–1789. Telford, 1757–1834. Chladni, 1756–1827.	Sheridan, 1751–1817. Dugald Stewart, 1753–1828. Paley, 1743–1805. Wieland, 1733–1813. Vernet, 1758–1835. David, 1748–1825. Haydn, 1732–1809.	America recognised, 1783. Pitt, 1759–1806. Fox, 1749–1806. E. Burke, 1730–1797.

1790	BICHAT, 1771–1802 (*Life of tissues*). Girtanner, about 1790. Kielmeyer, about 1790. Aldini, 1762–1834.	Fourier, 1768–1830. Brunel, 1769–1849. Leslie, 1766–1832. W. Humboldt, 1738–1822. A. Humboldt, 1769–1859. Haüy, 1743–1822. Ivory, 1765–1842. Playfair, 1749–1819. Dalton, 1767–1844. Jussieu, 1748–1836. Cuvier, 1769–1832. Ampère, 1775–1836.	Jeremy Bentham, 1748–1832. Goethe, 1749–1833. Jean Paul Richter, 1763–1825. Walter Scott, 1771–1832. Schiller, 1759–1805. Mrs. Siddons, 1735–1831. Flaxman, 1755–1826. Canova, 1757–1822. Beethoven, 1770–1827. Weber, 1786–1826. William Blake, 1779–1827.	The Revolution, 1792. Washington, 1732–1799. Napoleon, 1769–1821.
1800	THOMAS YOUNG, 1773–1829 (*Measurement of time, colour*). J. F. Berard, 1780–1828. Rudolphi, 1771–1832. CHARLES BELL, 1774–1842 (*Sensory and motor nerves*). Richerand, 1779–1840. Bostock, 1774–1846. Treviranus, 1776–1837. Spurzheim, 1776–1832.	Malthus, 1766–1834. Kater, 1777–1835. Barlow, 1776–1862. Gauss, 1777–1855. Pfaff, 1773–1852. Baily, 1774–1844. Malus, 1775–1812. Seebeck, 1770–1831. Oersted, 1777–1851. Arago, 1786–1853. Thomas Thomson, 1773–1852.	Coleridge, 1772–1834. Wordsworth, 1770–1850. Byron, 1788–1824. Madame de Stäel, 1767–1817. Hegel, 1770–1831.	Union of Great Britain and Ireland, 1801. Assaye, 1803. Trafalgar, 1805. French Empire, 1804–1815. Austerlitz, 1805. Jena, 1806. Peninsular War, 1808–1814.
1810	Edwards, 1777–1842. Purkinji, *b.* about 1787. Sir B. Brodie, 1783–1862. Dutrochet, 1776–1847. MAJENDIE, 1783–1855 (*Absorption*). G. Breschet, 1784–1845. Meckel, 1781–1833.	Peltier, 1785–1845. Döbereiner, 1780–1849. Hare, 1781–1858. C. Ritter, 1779–1859. Gay Lussac, 1778–1850. G. Stephenson, 1780–1848. Fresnel, 1783–1827. Niepce, 1765–1833.	Shelley, 1792–1822. Keats, 1795–1821. Schelling, 1775–1854. Niebuhr, 1776–1831. Schopenhauer, 1788–1860. Ricardo, 1772–1823. Beranger, 1780–1857. Thorwaldsen, 1770–1844.	Invasion of Russia, 1812. Waterloo, 1815.

Period.	Anatomists and Physiologists.	Representatives of Collateral Sciences.	Representatives of Philosophy, Literature, and Art.	Collateral Events.
1810 (*cont.*)	Sir E. Home, 1756–1832.	Wollaston, 1766–1828. Frauenhofer, 1787–1826. Bessel, 1784–1846. Nobili, 1784–1835. Ohm, 1787–1854. Christopher Bernoulli, *b.* 1782. Braconnet, 1781–1855. Brande, *b.* 1788. Cagniard de la Tour, *b.* 1776. Chevreul, *b.* 1786. Buckland, 1784–1856. A. C. Becquerel, *b.* 1788. Berzelius, 1779–1848.	Wilkie, 1785–1841.	
1820*	Krause, *b.* 1797. Beaumont, about 1824 (*Digestion*). Gmelin, 1788–1853. Serres, 1782–1862. E. H. Weber, *d.* 1878 (*Circulation, muscles*). J. L. Prevost, 1790–1850. Von Baer, *b.* 1792. Marshall Hall, 1790–1857 (*Reflex action*). Flourens, 1794–1867 (*The brain*). Ehrenberg, *b.* 1795.	Basevi, *b.* 1799. Despretz, *b.* 1792. Chasles, 1793–1880. Struve, 1793–1864. Mary Somerville, 1780–1872. Daniel, 1790–1845. Cauchy, 1789–1857. Encke, *b.* 1791. Babbage, *b.* 1790. Savart, 1791–1841. Mitscherlich, *b.* 1794. Audouin, 1797–1841. Poggendorff, *b.* 1796. Payer, *b.* 1795.	Comte, 1798–1857. Whewell, 1794–1866. Sir W. Hamilton, 1788–1856. Thomas Chalmers, 1786–1847. Macaulay, 1800–1859. Carlyle, 1795–1879. Heine, 1800–1856. Guizot, 1787–1874. Balzac, 1779–1850. Etty, 1782–1789. Chantrey, 1781–1841. Ary Scheffer, 1795–1858. Delaroche, 1792–1852. Rossini, 1792–1868.	Charles X., 1824. Nicholas I., 1825–1855. Navarino, 1827. Insurrection in Poland, 1830–1831. Canning, 1770–1827. Catholic Emancipation, 1829.

	Poiseuille, *b.* 1799 (*Manometers*). Dupuy, 1774–1849.	Bischof, *b.* 1792. Moebius, *b.* 1790.	Donizetti, 1798–1848. Schubert, 1797–1828. Bellini, 1806–1835. Mendelsohn, 1809–1847. Meyerbeer, 1794–1864.	
1830	Johann Muller, 1801–1858. Schleiden, 1804–1872 (*Cell theory*). Volkmann, 1801–1877. Schroeder van der Kolk, 1797–1862.	C. Lyell, 1797–1875. Faraday, 1794–1867. Sir W. Rowan Hamilton, 1805–1865. Colladon, *b.* 1802. Sturm, 1803–1855. Lassaigne, *b.* 1800. Frémy, *b.* 1814. Listing, *b.* 1808. Airy, *b.* 1801. Melloni, 1798–1854. Amici, *b.* 1786. Sir John Herschell, 1792–1871. Balard, *b.* 1802. Von Bibra, *b.* 1806. Boussingault, *b.* 1802. Challis, *b.* 1803. Christison, 1779–1880. Mulder, *b.* 1802. Gassiot, *b.* 1797. Dumas, *b.* 1800. Sir D. Brewster, 1781–1868.	Thomas Arnold, 1795–1842. J. S. Mill, 1806–1873. Chopin, 1810–1849. Milman, 1791–1868. Keble, 1792–1866.	William IV., 1830–7. Electric Telegraph, 1837.

* The dates of the decease of comparatively recent authorities have not been in all cases ascertained.

Period.	Anatomists and Physiologists.	Representatives of Collateral Sciences.	Representatives of Philosophy, Literature, and Art.	Collateral Events.
1840*	CLAUDE BERNARD, 1813–1878. (*Vaso-motor nerves*). SCHWANN, *b.* 1810 (*Cell theory*). John Reid, 1809–1849. JOHN GOODSIR, 1814–1867 (*Secretion*). FECHNER, *b.* 1801 (*Psycho-physik*). Hutchinson, about 1846. Allen Thomson. Carpenter. Bowman. Owen. Charles Darwin, 1809–1882. Henle. Wasmann. Ranke.	Foucault, *b.* 1819. Gorup Von Besanez, *b.* 1817. Thomas Graham, *b.* 1805. Lord Justice Grove. A. W. Hofmann. J. P. Joule. Lehmann, *b.* 1812. W. H. Miller, *b.* 1801. De Morgan, *b.* 1806. Plateau, *b.* 1801. J. R. Mayer, *b.* 1814. Regnault, *b.* 1810. Matteucci, 1811–1868. Leverrier, 1811–1870. Adams, *b.* 1819. Liebig, 1803–1873. Draper, 1811–1882. Wheatstone, 1802–1875. Edward Forbes, 1815–1854. Agassiz, 1808–1873. Andrews, *b.* 1813. Angström, 1814–1874. Bunsen, *b.* 1811. Cahours, *b.* 1813. Dana, *b.* 1813. Kopp, *b.* 1817. Wertheim, 1815–1861.	—	—

1850	Ludwig. Von Helmholtz. Donders. Brücke. Brown-Sequard. Du Bois Reymond. Schiff. Lister. Vulpian. Vierordt. Huxley. Pettenkofer. Czermak. Lothar Meyer.	Sir W. Thomson. Hind. A. E. Becquerel. A. Beer. Berthelot. Cayley. Sylvester. Clausius. Tyndall. Kekule. Kirchoff. Knoblauch. Moleschott. Pasteur.	—	—

* It has not been considered necessary to make any entries in the third and fourth columns after this date.

Dr. McKendrick will feel much obliged by any errors or important omissions being pointed out. It has not been attempted to give a complete list of scientific men, but only a list of those men who have left their mark on the various sciences. In fixing contemporaneous position, the method followed in most instances has been to assume that the author did his most important work between twenty-five and forty years of age.

J. G. M.

GLASGOW UNIVERSITY,
March 2, 1883.